```
=> FILE REG
FILE 'REGISTRY' ENTERED AT 21:30:03 ON 17 SEP 2005
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=> D HIS


     FILE 'HCAPLUS' ENTERED AT 20:18:33 ON 17 SEP 2005
L1          1731 S KADO ?/AU
L2         18117 S KITAMURA ?/AU
L3             3 S L1 AND L2
                 SEL L3 1-3 RN

     FILE 'REGISTRY' ENTERED AT 20:21:16 ON 17 SEP 2005
L4             5 S E1-E5
                 SEL L4 1-2 RN
L5             2 S E6-E7

     FILE 'HCA' ENTERED AT 20:26:07 ON 17 SEP 2005
L6             1 S L5

     FILE 'LREGISTRY' ENTERED AT 20:26:07 ON 17 SEP 2005
L7               STR

     FILE 'REGISTRY' ENTERED AT 20:33:48 ON 17 SEP 2005
L8               SCR 2043
L9             3 S L8 AND L7
L10              STR L7
L11            3 S HYMAX#

     FILE 'HCA' ENTERED AT 20:41:58 ON 17 SEP 2005
L12            2 S L11 OR HYMAX#
L13        33107 S ?AMIDIN?
L14         1370 S CYCLI?(2A)?AMIDIN?
L15        31854 S (5 OR FIVE#)(2A)MEMBER?
L16           27 S L14 AND L15
L17       258468 S (ION## OR CATION?)(2A)(EXCHANG? OR RESIN? OR POLYM? OR
L18            2 S L16 AND L17

     FILE 'REGISTRY' ENTERED AT 20:45:41 ON 17 SEP 2005
L19           99 S L7 AND L8 FUL
                 SAV L19 SHO976/A
L20           99 S L19 AND NC4/ESS
L21           41 S L19 AND NC4/ES
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L22             STR
L23           0 S L22 SSS SAM SUB=L19
L24           1 S L22 SSS FUL SUB=L19
L25          40 S L21 NOT L24

     FILE 'HCA' ENTERED AT 20:58:00 ON 17 SEP 2005
L26           1 S L24
L27          30 S L25

     FILE 'REGISTRY' ENTERED AT 20:58:27 ON 17 SEP 2005
L28             STR L22
L29           1 S L28 SSS SAM SUB=L19
L30          14 S L28 SSS FUL SUB=L19
                SAV L30 SHO976A/A
L31           2 S L30 AND 1/NRS

     FILE 'HCA' ENTERED AT 21:07:05 ON 17 SEP 2005
L32           3 S L31

     FILE 'REGISTRY' ENTERED AT 21:09:27 ON 17 SEP 2005
L33          12 S L30 NOT L31
L34          27 S L21 NOT (L31 OR L33)
L35           2 S L24 OR L31
L36           2 POLYLINK L35

     FILE 'HCA' ENTERED AT 21:27:22 ON 17 SEP 2005
L37           6 S L6 OR L12 OR L18 OR L26 OR L32
L38          25 S L16 NOT L37

     FILE 'REGISTRY' ENTERED AT 21:30:03 ON 17 SEP 2005


=> D L30 QUE STAT
L7              STR
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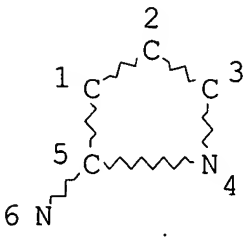


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CONNECT IS E3  RC AT   5
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DEFAULT ECLEVEL IS LIMITED
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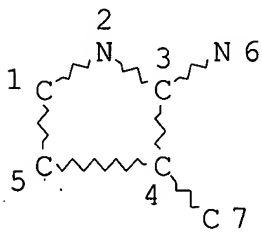
GRAPH ATTRIBUTES:
RING(S) ARE ISOLATED OR EMBEDDED
NUMBER OF NODES IS 6

STEREO ATTRIBUTES: NONE
L8 SCR 2043
L19 99 SEA FILE=REGISTRY SSS FUL L7 AND L8
L28 STR



NODE ATTRIBUTES:
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DEFAULT ECLEVEL IS LIMITED

GRAPH ATTRIBUTES:
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NUMBER OF NODES IS 7

STEREO ATTRIBUTES: NONE
L30 14 SEA FILE=REGISTRY SUB=L19 SSS FUL L28

100.0% PROCESSED 14 ITERATIONS 14 ANSWERS
SEARCH TIME: 00.00.01

=> FILE HCA
FILE 'HCA' ENTERED AT 21:30:44 ON 17 SEP 2005
USE IS SUBJECT TO THE TERMS OF YOUR STN CUSTOMER AGREEMENT.
PLEASE SEE "HELP USAGETERMS" FOR DETAILS.

=> D L37 1-6 CBIB ABS HITSTR HITRN

L37 ANSWER 1 OF 6 HCA COPYRIGHT 2005 ACS on STN
142:393452 Pressure sensitive adhesive sheets for postcards with good

printability. Furukawa, Manabu; Tachibana, Hiroyasu; Suzuki, Hideaki (Oji Paper Co., Ltd., Japan). Jpn. Kokai Tokkyo Koho JP 2005105258 A2 20050421, 16 pp. (Japanese). CODEN: JKXXAF. APPLICATION: JP 2004-255040 20040902. PRIORITY: JP 2003-318070 20030910.

AB The adhesive sheets comprise a substrate sheet and an adhesive layer which is bound to each other under strong pressure, where the adhesive layer consists of an adhesive, a particulate filler, a jet ink fixer, and a binder resin and the ink fixer is a secondary amine-epihalohydrin type resin with wt.-av. mol. wt. 1000-10,000. Prepg. a cationic resin from MeEtNH and epichlorohydrin, mixing (10 parts) with Me methacrylate-grafted acrylic adhesive (Fultite FB 06OJC) 28, JSR 0696 3, PVA 505 20, silica 36, Emulgen A60 0.4, DEF 727K (slip agent) 3, SN Defoamer 777 0.3, and Neocol SW-C 0.3 part, and coating on both sides of a paper substrate gave an adhesive sheet with good adhesion and printability.

IT **850055-72-0, Hymax** SC 505
(pressure sensitive adhesive sheets for postcards with good printability)

RN 850055-72-0 HCA

CN Hymax SC 505 (9CI) (CA INDEX NAME)

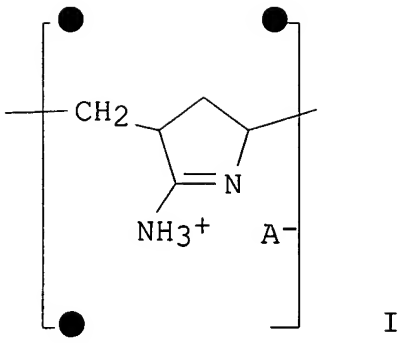
*** STRUCTURE DIAGRAM IS NOT AVAILABLE ***

IT **850055-72-0, Hymax** SC 505
(pressure sensitive adhesive sheets for postcards with good printability)

L37 ANSWER 2 OF 6 HCA COPYRIGHT 2005 ACS on STN

140:237219 Aqueous dispersion comprising inorganic pigment-**cationic resin** composite fine particles and ink jet recording material containing same. Kado, Kumiko; Kitamura, Ryu (Oji Paper Company Limited, Japan). Eur. Pat. Appl. EP 1396526 A2 20040310, 5 pp. DESIGNATED STATES: R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, LT, LV, FI, RO, MK, CY, AL, TR, BG, CZ, EE, HU, SK. (English). CODEN: EPXXDW. APPLICATION: EP 2003-255619 20030909. PRIORITY: JP 2002-262727 20020909.

GI



I

AB An aq. dispersion of inorg. pigment-**cationic resin** composite fine particles, having a high dispersing property and a high dispersion stability, contains agglomerate particles of a **cationic resin** which has **cationic polymn.** units having a **five-membered cyclic amidine** structure of the formula (I; A is an anion), with inorg. pigment particles having an av. primary particle size of 3 to 40 nm, the agglomerate particles having an av. secondary particle size controlled to from 10 nm to 1.0 .mu.m. Composite particles were prepd. from silica (Silojet P403) and a **cationic resin** (**Hymax** SC-700M).

IT **668989-67-1, Hymax** SC 700M **668989-68-2, Hymax** SC 700L
(aq. dispersion comprising inorg. pigment-**cationic resin** composite fine particles and ink jet recording material contg. same)

RN 668989-67-1 HCA
CN Hymax SC 700M (9CI) (CA INDEX NAME)
*** STRUCTURE DIAGRAM IS NOT AVAILABLE ***
RN 668989-68-2 HCA
CN Hymax SC 700L (9CI) (CA INDEX NAME)
*** STRUCTURE DIAGRAM IS NOT AVAILABLE ***

IT **668989-67-1, Hymax** SC 700M **668989-68-2, Hymax** SC 700L
(aq. dispersion comprising inorg. pigment-**cationic resin** composite fine particles and ink jet recording material contg. same)

L37 ANSWER 3 OF 6 HCA COPYRIGHT 2005 ACS on STN
127:339270 Ink-jet printing sheet useful in production of overhead projection film. Mukoyoshi, Shunichiro; Yasui, Koichi; Koro, Takaaki (Oji Paper Co., Ltd., Japan). Jpn. Kokai Tokkyo Koho JP 09254525 A2 19970930 Heisei, 7 pp. (Japanese). CODEN: JKXXAF. APPLICATION: JP 1996-64393 19960321.

AB The title sheet comprises a support coated with an ink receptive layer contg. partially sapond. poly(vinyl alc.), poly(vinylamidine), and an optional aldehyde compd. The sheet shows good ink drying properties and high transparency and is esp. useful in prodn. of overhead projection films.

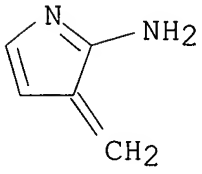
IT **198022-54-7**
(ink-jet printing receptor contg. sapond. poly(vinyl alc.) and polyvinylamidine)

RN 198022-54-7 HCA

CN 3H-Pyrrol-2-amine, 3-methylene-, homopolymer (9CI) (CA INDEX NAME)

CM 1

CRN 198022-53-6
CMF C5 H6 N2



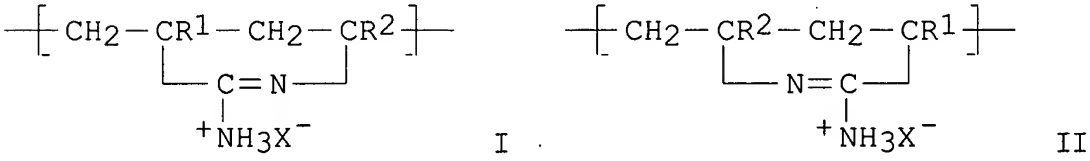
IT **198022-54-7**
(ink-jet printing receptor contg. sapond. poly(vinyl alc.) and polyvinylamidine)

L37 ANSWER 4 OF 6 HCA COPYRIGHT 2005 ACS on STN

119:96969 Preparation of novel **cationic polymers** as flocculating agents. Sato, Shinichi; Sakakihara, Toshiaki; Sawayama, Shigeru (Mitsubishi Kasei Corp., Japan). Eur. Pat. Appl. EP 528409 A1 19930224, 22 pp. DESIGNATED STATES: R: DE, FR, GB, NL. (English). CODEN: EPXXDW. APPLICATION: EP 1992-114098 19920818. PRIORITY: JP 1991-208314 19910820.

GI

5281340



I II

AB The title polymers comprising 20-90 mol.% repeating **5-membered cyclic amidine** structures I or II (R1, R2 = H, Me; X- = anion), 0-2% repeating units CH2CR2(NHCOR3)

(R3 = H, C1-4 alkyl), 0-70% CH2CR1(CN), and 0-70% CH2CR2(NH3+X-) were prepd. as flocculating agents, useful esp. for org. sludge. Thus, 6.0 g of an equimol. mixt. of N-vinylformamide and acrylonitrile and 34.0 g H2O were heated to 60.degree. under N, 0.12 g of 10% aq. 2,2'-azobis-2-aminopropane dihydrochloride was added, the stirring continued for 4 h at 45.degree. and for 3 h at 60.degree. to give a polymer suspension. This was dild. with 20 g H2O, treated by 2 equiv HCl per equiv amidine group, then the whole stirred and heated for 4 h at 100.degree., to give a title polymer having reduced viscosity of 4.0 dL/g. In a flocculating performance test the latter gave H2O content of 73% in a dehydrated sludge, vs. 78% for a com. poly(dimethylaminoethyl acrylate).

L37 ANSWER 5 OF 6 HCA COPYRIGHT 2005 ACS on STN

61:25317 Original Reference No. 61:4317h,4318a-d Substituted iminopyrrolidines. Bortnick, Newman M.; Fegley, Marian F. (Rohm & Haas Co.). US 3121093 19640211, 7 pp. (Unavailable). APPLICATION: US 19620831.

GI For diagram(s), see printed CA Issue.

AB The title compds. (I), useful as fungicides, particularly against Monilinia fructicola and Stemphylium sarcinaeforme, were prepd. I contg. .gtoreq.20 C atoms formed water-insol., but kerosene-sol. complexes with H4UO2(SO4)3 and were useful in the recovery of U from aq. solns. A vessel contg. 1-butyl-5-butylimino-2,4,4-trimethyl-2-pyrroline 24, MeOH 10, and Raney Ni 2 parts, was pressurized with H to 2000 lb./in.2 and heated to 140.degree.. After 1.5 hrs. when 1 mole of H had been absorbed, the vessel was cooled and vented, and the mixt. distd. to give 2 fractions, b. 259-62.degree., n25D 1.4680, and b. 263-6.degree., n25D 1.4695, resp., both representing I (R = R1 = Bu) which was also obtained by hydrogenating 1-butyl-2-butylimino-3,3-dimethyl-5-methylene-pyrrolidine. Similarly, the following I were prepd. (R and R1 given): dodecyl, dodecyl; PhCH2, PhCH2 (b0.25 176-84.degree., n25D 1.5702); CH2CH2OH, CH2CH2OH (reaction solvent EtOH catalyst Raney Co); H, dodecyl (II) (b0.4 149-54.degree., yield 86%); H, cyclohexyl (III) [b0.5 72-94.degree., m. 95.5-7.degree. (EtOAc)]. It was not necessary to purify the starting iminopyrrolines. Thus, a mixt. of 2,2-dimethyl-4-oxopentanecarbonitrile (IV) 375, BuNH2 241 and hexane 100 was refluxed 4.5 hrs., a mixt. of H2O and BuNH2 75 azeotroped, the residue stripped at 90.degree./20 mm., charged with Raney Ni 20 parts to an autoclave, pressurized with H at 2180 lb./in.2 at 29.degree., and heated 7 hrs. at 145-60.degree., to give 63% I (R = H, R1 = Bu), b30 132-40.degree., and 17% dimeric compd., b0.4 157-80.degree.. Use of cyclohexylamine instead of BuNH2 gave 50% III. A dry ice-cooled autoclave contg. anhyd. MeNH2 58, IV 63, and Raney Ni 5 parts was sealed and kept 72 hrs., then pressurized with H at 1920 lb./in.2 at 32.degree., and heated 1.5 hrs. at 112-41.degree., to give I(R = H, R1 = Me) (V), m. 102-8.degree.

(heptane). Use of NH3 instead of MeNH2 gave I (R = R1 = H), b1.1 110.degree., m. 103-4.5.degree. (heptane), with 20% 3,3,5-trimethyl-2-pyrrolidinone as a by-product. Hydrogenation with Raney Ni of 3,3,5-trimethyl-5-hydroxy-2-methyliminopyrrolidine (VI), the 5-methylamino or the 5-methoxy analog of VI yielded the same V. Hydrogenation of 29.2 g. 5-dodecylimino-2,4,4-trimethyl-pyrroline in 100 ml. EtOH with 2 g. Rh-Al2O3 at 40 lb./in2. H gave II. Similarly, hydrogenation of 1-dodecyl-5-imino-2,4,4-trimethyl-2-pyrroline gave I (R = dodecyl, R1 = H), b0.2 131-50.degree., m. 78-82.degree..

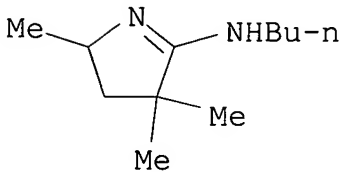
IT **101940-28-7**, Pyrrolidine, 2-(butylimino)-3,3,5-trimethyl-, dimer
(prepn. of)

RN 101940-28-7 HCA

CN Pyrrolidine, 2-(butylimino)-3,3,5-trimethyl-, dimer (7CI) (CA INDEX NAME)

CM 1

CRN 86198-58-5
CMF C11 H22 N2



IT **101940-28-7**, Pyrrolidine, 2-(butylimino)-3,3,5-trimethyl-, dimer
(prepn. of)

L37 ANSWER 6 OF 6 HCA COPYRIGHT 2005 ACS on STN

59:8888 Original Reference No. 59:1597b-f Iminopyrrolidines. (Rohm & Haas Co.). GB 913932 19621228, 8 pp. (Unavailable). PRIORITY: US; 19580303.

GI For diagram(s), see printed CA Issue.

AB The title compds. are prepd. by the catalytic hydrogenation of the corresponding iminopyrrolines or hydroxyiminopyrrolidines (cf. Brit. 913,931, preceding abstr.), which are fungicides against Monilinia fructicola and Stemphylium sarcinaeforme. Thus, 78 parts (wt.) 2,4,4-trimethyl-5-dodecylimino-2-pyrroline in 25 parts MeOH was hydrogenated with 3 parts Raney Ni under 1775 lb./in.2 gage (at 20.degree.) pressure in autoclave for 2 hrs. at 50-150.degree., the mixt. filtered, and the filtrate was evapd. to remove MeOH and fractionated in vacuo to give 67.4 parts 2-laurylimino-3,3,5-trimethylpyrrolidine (I), b0.4 149-154.degree.. Similarly prepd.

were: 2-octadecylimino-3,3,5-trimethylpyrrolidine; 2-dodecylimino-5-methylpyrrolidine; 2-phenylimino-3,3,5-trimethylpyrrolidine;2-benzylimino-3-methyl-3,5-bis(2-methylpropyl)pyrrolidine; 2-octylimino-4,5-dimethylpyrrolidine; 2-butylimino-3,3-pentamethylene-2,3,3a,4,5,6,7,7a-octahydroindole; 2-(2-phenylethylimino)-3,3,5-trimethyl-2,3,3a,4,5,6,7,7a-octahydroindole; 2-(3-dimethylaminopropylimino)-3-neopentyl-3,5-dimethylpyrrolidine; 2-cyclohexylimino-3,3,5-trimethylpyrrolidine, b0.5 72-94.degree., m. 95.5-97.0.degree.; 1-cyclohexylimino-3-methyl-2,3,3a,4,5,6,7,7a-octahydroisoindole; 2-(2-norcamphanylmethylimino)-3,3,5-trimethyl-2,3,3a,4,5,6,7,7a-octahydroindole; 2-(3-butoxypropylimino)-3,3-pentamethylene-2,3,3a,4,5,6,7,7a-octahydroindole; 2-cyclohexylmethylimino-3,3,5-trimethylpyrrolidine; 2-butylimino-3,3,5-trimethylpyrrolidine, b30 132-40.degree.; 2-octylimino-3-methyl-3,5-diphenylpyrrolidine; 2-octadecylimino-5-methylpyrrolidine; 2-benzylimino-3,3,5-trimethylpyrrolidine; 2-decylimino-4,5-dimethylpyrrolidine; 2-(2-norcamphanylmethylimino)-3,3,5-trimethylpyrrolidine; 2-methylimino-3,3,5-trimethylpyrrolidine, m. 102-8.degree.; 2-ethylimino-3,3,5-trimethylpyrrolidine; 2-methylimino-3,3-pentamethylene-2,3,3a,4,5,6,7,7a-octahydroindole; 2-propylimino-3,3,6-trimethyl-2,3,3a,4,5,6,7,7a-octahydroindole; 2-imino-3,3,5-trimethylpyrrolidine, b1.1 110.degree., m. 103.0-4.5.degree.; 2-methylimino-5,5,7-trimethyl-2,3,3a,4,5,6,7,7a-octahydroindole; 2-methylimino-4,5-dimethylpyrrolidine; 2-methylimino-3-neopentyl-3,5-dimethylpyrrolidine; 2-dodecylimino-3,3-pentamethylene-2,3,3a,4,5,6,7,7a-octahydroindole.

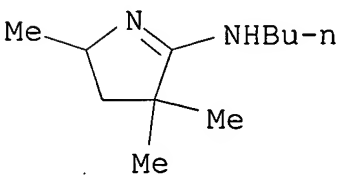
IT **101940-28-7**, Pyrrolidine, 2-(butylimino)-3,3,5-trimethyl-, dimer
(prepn. of)

RN 101940-28-7 HCA

CN Pyrrolidine, 2-(butylimino)-3,3,5-trimethyl-, dimer (7CI) (CA INDEX NAME)

CM 1

CRN 86198-58-5
CMF C11 H22 N2



IT **101940-28-7**, Pyrrolidine, 2-(butylimino)-3,3,5-trimethyl-, dimer

(prepn. of)

=> D L38 1-25 TI

L38 ANSWER 1 OF 25 HCA COPYRIGHT 2005 ACS on STN
TI Manufacture of ink-jet recording sheets showing good ink absorption and reduced curl

L38 ANSWER 2 OF 25 HCA COPYRIGHT 2005 ACS on STN
TI An Improved Procedure for the Synthesis of Benzimidazoles, Using Palladium-Catalyzed Aryl-Amination Chemistry

L38 ANSWER 3 OF 25 HCA COPYRIGHT 2005 ACS on STN
TI Preparation of **cyclic amidine** derivatives as thrombin receptor antagonists

L38 ANSWER 4 OF 25 HCA COPYRIGHT 2005 ACS on STN
TI Preparation of **cyclic** and acyclic **amidines** and pharmaceutical compositions containing them for use as progesterone receptor binding agents

L38 ANSWER 5 OF 25 HCA COPYRIGHT 2005 ACS on STN
TI Preparation of pyridin-3-ylmethylamine derivatives as pesticides

L38 ANSWER 6 OF 25 HCA COPYRIGHT 2005 ACS on STN
TI Is There Stereoelectronic Control in Formation and Cleavage of Tetrahedral Intermediates?

L38 ANSWER 7 OF 25 HCA COPYRIGHT 2005 ACS on STN
TI Vinyl polymers bearing **cyclic amidine** structures, their manufacture and use in coating of ink jet printing paper

L38 ANSWER 8 OF 25 HCA COPYRIGHT 2005 ACS on STN
TI Chelating agents for trapping heavy metals from incinerator ashes to prevent leaching in landfills

L38 ANSWER 9 OF 25 HCA COPYRIGHT 2005 ACS on STN
TI Five-ring cycloamidines. Deeply colored heterocycles with unusual properties. Part 1. Synthesis and spectral features

L38 ANSWER 10 OF 25 HCA COPYRIGHT 2005 ACS on STN
TI After cataract inhibitors containing nonpolypeptide cell adhesion-inhibiting substances

L38 ANSWER 11 OF 25 HCA COPYRIGHT 2005 ACS on STN
TI Dewatering of waste sludges by polyferric sulfate and polyamidines

L38 ANSWER 12 OF 25 HCA COPYRIGHT 2005 ACS on STN
TI 2-Iminopiperidine and other 2-iminoazaheterocycles as potent inhibitors of human nitric oxide synthase isoforms

L38 ANSWER 13 OF 25 HCA COPYRIGHT 2005 ACS on STN
TI Chemical compounds

L38 ANSWER 14 OF 25 HCA COPYRIGHT 2005 ACS on STN
TI Manufacture of merocyanine dyes

L38 ANSWER 15 OF 25 HCA COPYRIGHT 2005 ACS on STN
TI Reactions with aroylthiazoles: a simple route to thiazolopyrimidines

L38 ANSWER 16 OF 25 HCA COPYRIGHT 2005 ACS on STN
TI Diphenylimidazole dyes

L38 ANSWER 17 OF 25 HCA COPYRIGHT 2005 ACS on STN
TI Dimethylmaleic anhydride

L38 ANSWER 18 OF 25 HCA COPYRIGHT 2005 ACS on STN
TI Storage-stable powder coating compositions for matte surfaces

L38 ANSWER 19 OF 25 HCA COPYRIGHT 2005 ACS on STN
TI Crosslinking of epoxy resin powder coatings

L38 ANSWER 20 OF 25 HCA COPYRIGHT 2005 ACS on STN
TI Absence of stereoelectronic control in hydrolysis of **cyclic amidines**

L38 ANSWER 21 OF 25 HCA COPYRIGHT 2005 ACS on STN
TI Alcohol derivatives

L38 ANSWER 22 OF 25 HCA COPYRIGHT 2005 ACS on STN
TI Heterocyclic .beta.-enamino esters. 28. The reaction of heterocyclic .beta.-enamino esters and nitriles with **cyclic amidines**. A simple route to azolopyrimidines (1)

L38 ANSWER 23 OF 25 HCA COPYRIGHT 2005 ACS on STN
TI Synthesis and properties of 1,2-diaryl-4,5,6,7-tetrahydro-1H-1,3-diazepines and 1,2-diaryl-1,4,5,6,7,8-hexahydro-1,3-diazocines. Comparison with the **five**- and six-**membered** homologs

L38 ANSWER 24 OF 25 HCA COPYRIGHT 2005 ACS on STN
TI Trypanocidal diamidines with three isolated ring systems

L38 ANSWER 25 OF 25 HCA COPYRIGHT 2005 ACS on STN
TI Corrosion inhibition

=> D L38 1,7,8,11,25 CBIB ABS HITSTR HITIND

L38 ANSWER 1 OF 25 HCA COPYRIGHT 2005 ACS on STN
143:163111 Manufacture of ink-jet recording sheets showing good ink absorption and reduced curl. Kitamura, Ryu; Ishii, Etsuko (Oji Paper Co., Ltd., Japan). Jpn. Kokai Tokkyo Koho JP 2005199550 A2 20050728, 21 pp. (Japanese). CODEN: JKXXAF. APPLICATION: JP 2004-7819 20040115.

AB The sheets are manufd. by applying first layers having .gtoreq.1 peaks at 0.1-10 .mu.m in a pore size distribution curve and applying second layers having peaks at .ltoreq.0.06 .mu.m in the curve, where the second layers are viscosity-increased or crosslinked simultaneously the application or during drying, and before showing decreasing drying rate. The sheets form uniform images with dye or pigment jet printing inks.

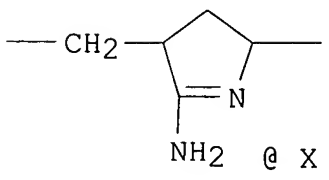
IC ICM B41M005-00
ICS B41J002-01

CC 74-6 (Radiation Chemistry, Photochemistry, and Photographic and Other Reprographic Processes)

IT **Amidines**
(**five-membered cyclic** structures, aggregates with vapor-deposited silica; manuf. of ink-jet recording sheets showing good ink absorption and reduced curl)

L38 ANSWER 7 OF 25 HCA COPYRIGHT 2005 ACS on STN
132:108482 Vinyl polymers bearing **cyclic amidine** structures, their manufacture and use in coating of ink jet printing paper. Mori, Koji; Ueno, Nobuhiko; Kitani, Yasuo; Seko, Toshinari (Mitsubishi Chemical Industries Ltd., Japan). Jpn. Kokai Tokkyo Koho JP 2000026530 A2 20000125, 9 pp. (Japanese). CODEN: JKXXAF. APPLICATION: JP 1998-194119 19980709.

GI



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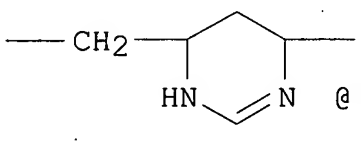


II

AB The polymers giving coat surface with good resistance to light and moisture, are polymers bearing **5-membered**

cyclic amidine ring I and 6-membered **cyclic amidine** II (X = protonic acid) up to >50 mol%, and having reduced viscosity at 25.degree. in a 1N NaCl aq. soln. of 0.01-10 dL/g. Thus, heating a 45:55 (mol/mol) mixt. of N-vinylformamide and acrylonitrile, 6, with deionized water 24 and polyethylene glycol 0.45 under N at 70.degree. in the presence of a 10% aq. soln. of 2,2'-2,2'-azobis(2,4-dimethylvaleronitrile)-2-amidinopropane.cntdot.HCl salt, 0.06 g gave a copolymer which was heated with 35% HCl to give a copolymer bearing the I and II structures.

IC ICM C08F008-48

CC 35-4 (Chemistry of Synthetic High Polymers)
Section cross-reference(s): 42, 43

IT Ink-jet recording sheets
(paper; vinyl polymers bearing **cyclic amidine** structures, manuf. and use in coating of ink jet printing paper)

IT Paper
Paper
(printing, ink-jet; vinyl polymers bearing **cyclic amidine** structures, manuf. and use in coating of ink jet printing paper)

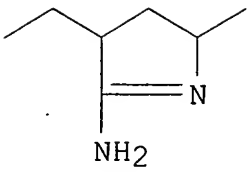
IT Coating materials
(water-resistant, light- and; vinyl polymers bearing **cyclic amidine** structures, manuf. and use in coating of ink jet printing paper)

IT 114815-82-6DP, Acrylonitrile-N-vinylformamide copolymer, amidine ring structure-contg.
(vinyl polymers bearing **cyclic amidine** structures, manuf. and use in coating of ink jet printing paper)

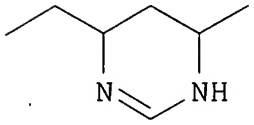
L38 ANSWER 8 OF 25 HCA COPYRIGHT 2005 ACS on STN

130:28719 Chelating agents for trapping heavy metals from incinerator ashes to prevent leaching in landfills. Mori, Koji; Sawayama, Shigeru; Nabeshima, Akihiro; Kobayashi, Masahiro (Mitsubishi Chemical Industries Ltd., Japan; Otsuka Chemical Co., Ltd.). Jpn. Kokai Tokkyo Koho JP 10298533 A2 19981110 Heisei, 6 pp. (Japanese). CODEN: JKXXAF. APPLICATION: JP 1997-113828 19970501.

GI



I



II

AB The title agents comprise the dithiocarbamate alkali metal salts of an amidine ring-contg. polymer having repeating units of -(X)a[CH2C(R)(NH2)]b(Y)c-, in which X is a **five-member** amidine ring group of formula (I) or six-member amidine ring group of formula (II); R is H or Me; Y is N-vinylformamide or its deriv. monomer; a = 1-70, b = 0-99, and c = 0-99 mol% and having an av. mol. wt. of 1,000-10,000,000.

IC ICM C09K003-00
ICS B09B003-00; B09C001-02; B09C001-08; C02F011-00

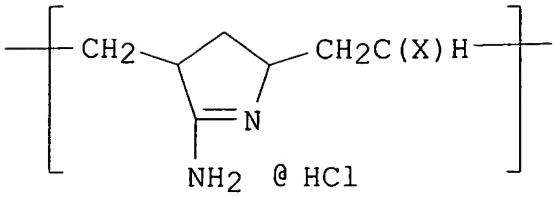
CC 59-4 (Air Pollution and Industrial Hygiene)

IT 4384-81-0D, Sodium dithiocarbamate, compds. with amidine ring-contg. polymer 72018-12-3D, N-Vinylformamide homopolymer, **cyclic amidine** derivs., dithiocarbamate alkali metal salts 114815-82-6D, hydrolyzed, dithiocarbamate alkali metal salts
(chelating agents for trapping heavy metals from incinerator ashes to prevent leaching in landfills)

L38 ANSWER 11 OF 25 HCA COPYRIGHT 2005 ACS on STN

125:256246 Dewatering of waste sludges by polyferric sulfate and polyamidines. Kurimoto, Tetsuo; Sasaki, Tomohiko; Kanbara, Ryohei (Kubota Kk, Japan). Jpn. Kokai Tokkyo Koho JP 08173999 A2 19960709 Heisei, 3 pp. (Japanese). CODEN: JKXXAF. APPLICATION: JP 1994-326652 19941228.

GI



I

AB The process for sewage sludges comprises (1) addn. of polyferric sulfate, (2) pH control for 4.0-7.0, (3) addn. of polyamidines having **5-membered cyclic amidine** repeating structures and having cation eq. 5.5-6.5 meq/g as cationic polyelectrolytes, and (4) dewatering. The process provides high dewatering efficiency.

IC ICM C02F011-14
ICS B01D021-01

CC 60-2 (Waste Treatment and Disposal)
Section cross-reference(s): 38

L38 ANSWER 25 OF 25 HCA COPYRIGHT 2005 ACS on STN
72:124587 Corrosion inhibition. Raifsnider, Philip J. (Shell Oil Co.). U.S. US 3502578 19700324, 3 pp. (English). CODEN: USXXAM. APPLICATION: US 1966-561734 19660630.

AB The corrosion of ferrous metals is inhibited by an adduct of a C8-32 alky l substituted **5**- or 6-**membered cyclic amidine** with at least one mole of SO2 reacted in an anhydrous medium. Preferred amidines are 1-(2-hydroxyethyl)-2-heptadecenylimidazoline and 1-(2-aminoethyl)-2-heptadecenylimidazoline.

IC C23F; E21B
INCL 252008550
CC 56 (Nonferrous Metals and Alloys)
ST imidazolines corrosion inhibitors; corrosion inhibitors imidazolines; inhibitors corrosion imidazolines; steels corrosion inhibitors; **cyclic amidines** corrosion inhibitors; **amidines cyclic** corrosion inhibitors